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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,647	03/05/2002	Aedan Diarmuid Cailean Coffey	ERLG.P-032	9151
21121	7590	11/23/2004	EXAMINER	
OPPEDAHL AND LARSON LLP P O BOX 5068 DILLON, CO 80435-5068			PARK, EDWARD K	
			ART UNIT	PAPER NUMBER
			2116	

DATE MAILED: 11/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/091,647

Applicant(s)

COFFEY, AEDAN DIARMUID
CAILEAN

Examiner

Edward K. Park

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 March 2002.
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-4 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 05 March 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character not mentioned in the description: item 240 in figure 2. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3 rejected under 35 U.S.C. 103(a) as being unpatentable over Chin (U.S. 6,000,020).

4. Regarding claim 1, Chin discloses a resetting apparatus comprising: a fibre channel arbitrated loop (FC-AL) interface (page 3, column 5, lines 64-66) arranged to receive a frame (page 4, column 7, lines 20-22); and reset means to issue a reset command (page 4, column 7, lines 24-25). Though Chin discloses the apparatus for resetting nodes' software and FC_AL protocols (page 4, column 7, lines 24-26), Chin does not disclose the apparatus for resetting the nodes themselves, nor their processors. However, it would have been obvious to one of ordinary skill in the art at the time of invention that the reset command could be used for a node including a processor associated with said resetting apparatus; and reset means, responsive to said reset command, to issue a reset command for resetting said processor of a node, wherein the node was a server. The motivation for doing so would have been to enable the re-initialization of the server and its processor.

5. Regarding claim 2, Chin discloses the apparatus as in claim 1 above, wherein the server is one of a redundant pair of servers (page 3, column 6, lines 4-5).

6. Regarding claim 3, Chin discloses the apparatus as in claim 1 above, wherein the apparatus comprises a separate component of a server motherboard (page 3, column 5, line 66 through column 6, line 2).

7. Claim 4 rejected under 35 U.S.C. 103(a) as being unpatentable over Chin (U.S. 6,000,020) in view of Tomas (U.S. 5,892,954). As noted above, Chin discloses all of the limitations of claim 1. However, Chin fails to disclose the apparatus wherein said FC-AL interface is arranged to receive a frame indicative of a lock request for a resource and wherein said apparatus further comprises: means for receiving from said

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associated processor an indicator of a resource to be locked; means for causing a corresponding indicator to be stored; means for causing said stored indicator to be deleted when an associated resource is unlocked; means, responsive to receiving a lock request frame originating from another processor, for checking any stored indicators for a matching locked resource; means, responsive to detecting a match, for transmitting a frame indicative of said resource being locked by said processor to the originator of said lock request; and means, responsive to not detecting a match, for transmitting said lock request frame to the originator of said lock request. Tomas teaches an interface arranged to receive a frame indicative of a lock request for a resource from an associated processor and means for receiving from said associated processor an indicator of a resource to be locked (page 2, column 3, line 37 – accessing the data file); means for causing a corresponding indicator to be stored (page 2, column 3, lines 37-38); means for causing said stored indicator to be deleted when an associated resource is unlocked (page 2, column 4, line 51 and figure 3, item 280); means, responsive to receiving a lock request frame originating from another processor, for checking any stored indicators for a matching locked resource (page 2, column 4, lines 31-32); means, responsive to detecting a match, for transmitting a frame indicative of said resource being locked by said processor to the originator of said lock request (page 2, column 4, lines 59-61); and means, responsive to not detecting a match, for transmitting said lock request frame to the originator of said lock request (page 2, column 4, lines 34-36). The basis of Tomas's invention lies in the minimization of file corruption and incorrect data in the environment of a multiprocessing computer system

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(page 1, column 1, lines 16-17). At the time of the invention it would have been obvious to one skilled in the art to combine the disclosure of Chin's processor resetting apparatus with the teachings of Tomas's resource lock. The motivation for doing so would have been the benefit of maintaining the integrity of said resource's contents.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. DeKoning (U.S. 5,933,824), Wolff (U.S. 6,044,367), and Smith (U.S. 6,314,488).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward K. Park whose telephone number is (571) 272-5859. The examiner can normally be reached on M-F, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ekp

A handwritten signature in black ink, appearing to read 'Tianan Du', with a stylized, flowing script.

THUAN DU